

# **Bacteria TMDL Development for the Lower Pamunkey, Lower Mattaponi, and Upper York River Watershed**

**Second Public Meetings**

**March 2, 2010  
West Point, VA**



# *What is a TMDL?*

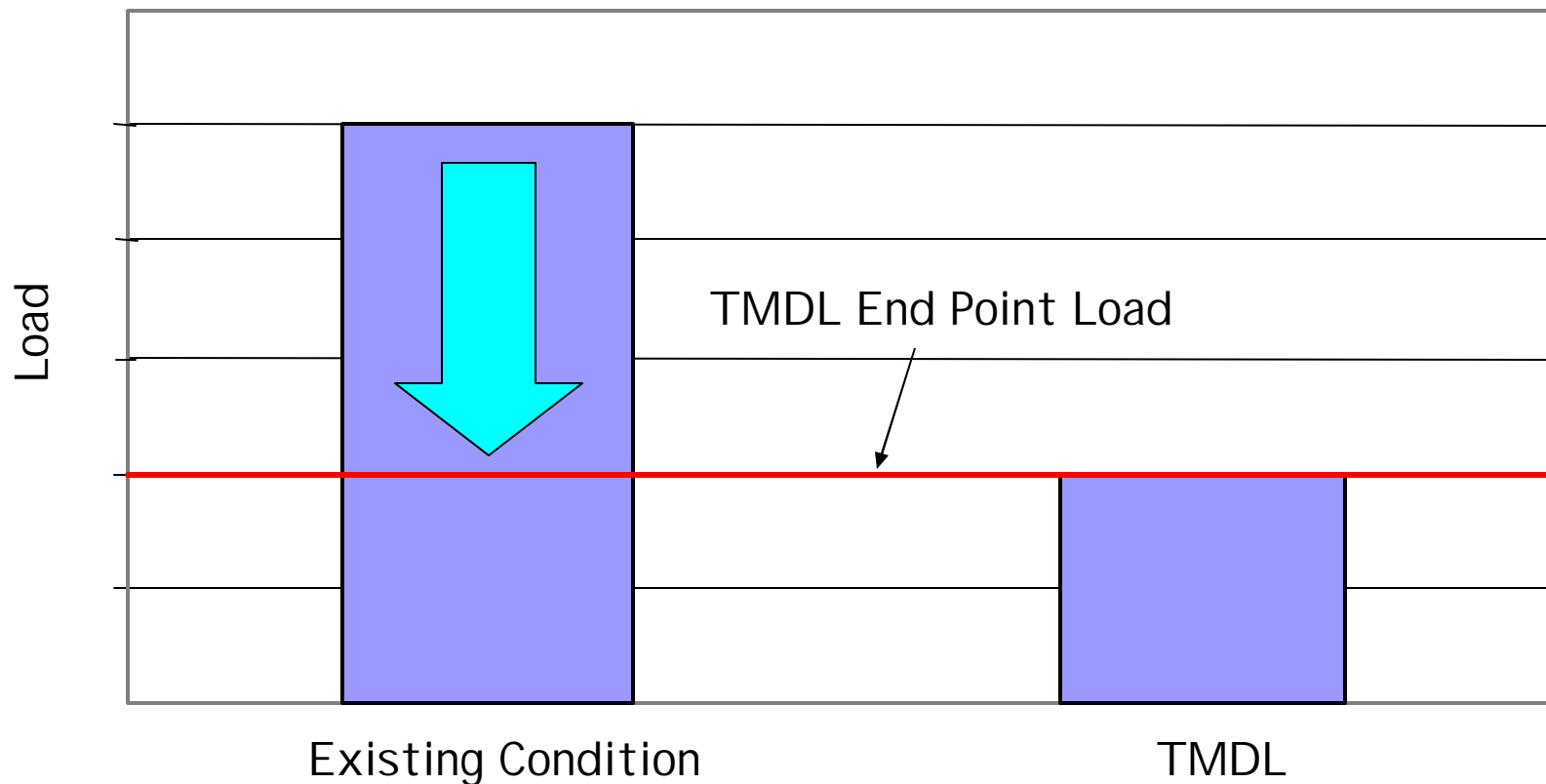
**TMDL** = Total Maximum Daily Load = maximum amount of a pollutant that can exist in a waterbody without violating water quality standards (WQS)



**WQS** = numeric or narrative limits on pollutants that ensure the protection of human health and of aquatic life



# *A Visual Example of a TMDL*



**Reducing existing bacteria load to the TMDL end point load is expected to restore water quality.**

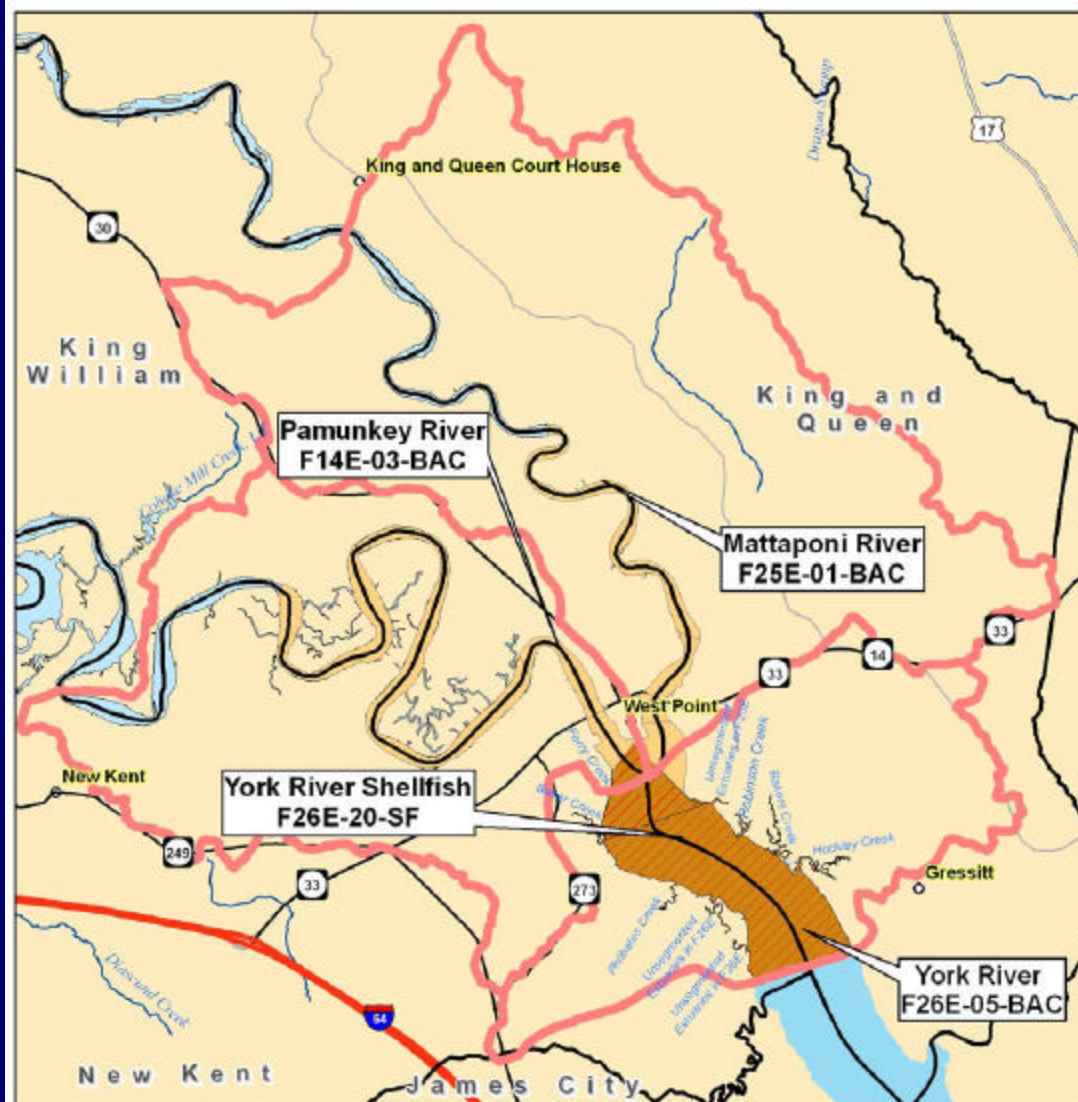
# *Why are TMDL studies necessary?*

- TMDLs must be developed for water bodies that do not meet water quality standards for their designated uses (Clean Water Act 1972).
- Impaired waters occur throughout Virginia in lakes, streams, and tidal waters.
- In Virginia, ~1100 TMDLs due by 2020 – based on 2008 DEQ Integrated Assessment Report

# *Designated Uses*

- Primary Contact (Swimming)
- Public Water Supply
- Aquatic Life
- Fish Consumption
- Shellfish Consumption
- Wildlife

# Watershed:



Upper York Watershed Overview

## Legend

- Watershed Boundaries
- Cities
- County Line
- Pamunkey and Mattaponi Recreation
- Shellfish Impairment
- York Recreation



Source: EDPA, 9/9/05, VA EDC



THE LOUIS BERGER GROUP, INC.

0 0.5 1 2 3 4 Miles





# *Next Steps...*

## □ 30 Day Public Comment Period

**\*\*\*Ends April 1, 2010\*\*\***

- Send comments with the name, address, and telephone number of the commenter.

**SEND Comments TO:** DEQ - Piedmont Regional Office  
Attn: Margaret Smigo  
4949-A Cox Road  
Glen Allen, VA 23060  
[Margaret.Smigo@deq.virginia.gov](mailto:Margaret.Smigo@deq.virginia.gov)

- Comments will be answered and incorporated into the final document sent to EPA and State Water Control Board for approval.
- Following approval of the TMDL, Implementation Planning can be coordinated by DCR and DEQ

# Questions?

